

CHAPTER 6 - SKELETAL SYSTEM

COMPONENTS:

- *Bones*
- *Joints & Associated Cartilages*

SKELETAL

- Derived from Greek word meaning "*dried*"
- Consist of dynamic, living tissues that are able to grow, detect pain stimuli, adapt to stress & undergo repair after injury.
- FRAMEWORK to support the soft tissues of the body.

MAJOR FUNCTIONS:

1.) SUPPORT

- Major supporting tissues of the body
- **Cartilages** – provides firm yet flexible support (ex. Nose, external ear, thoracic cage & trachea)
- **Ligaments** – strong bands of fibrous connective tissue that attach to bones & hold them together.

2.) PROTECTION

- Protects the organ it surrounds
(Ex. Skull encloses and protects the brain)

3.) MOVEMENT

- **Tendons** – skeletal muscles attach to bones
- **Smooth Cartilages** – covers the ends of bones within some joints ; allowing the bones to move freely
- **Ligaments** – allow some movements between bones but prevent excessive movements

4.) STORAGE

- **Calcium & Phosphorus** – taken into bones and stored
- * **Adipose tissue** – stored w/in bone cavities (fats)
- **Lipids** – Released into the blood and used by other tissues as a *source of energy*

5.) BLOOD CELL PRODUCTION

- Cavities filled with red bone marrow
 - produces blood cells & platelets

EXTRACELLULAR MATRIX

- *Collagen (Tough rope-like proteins)*
- *Proteoglycans (Polysaccharides)*
- *Tendons (Collagen Fibers)*
- *Ligaments (Collagen Fibers)*
- *Cartilage (Collagen & Proteoglycans)*
- *Hydroxyapatite (Calcium Phosphate Crystals)*

GENERAL FEATURES OF BONE

1. LONG BONES

- Longer than they are wide

2. SHORT BONES

- Broad as they are long

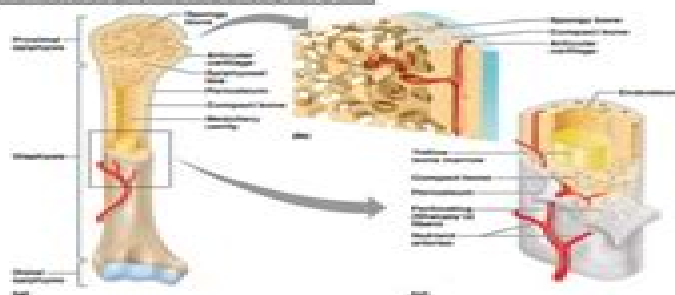
3. FLAT BONES

- Relatively thin, flattened shape

4. IRREGULAR BONES

- Vertebrae & Facial Bones

STRUCTURE OF A LONG BONE



• DIAPHYSIS

- Central Shaft

• EPIPHYSIS

- Two ends

• ARTICULAR CARTILAGE

- covers the ends of the epiphyses where the bone articulates with other bones.

• EPIPHYSEAL PLATE

- Growth plate, where the bone grows in length.
- Composed of cartilage, between each epiphysis and the diaphysis

• EPIPHYSEAL LINE

- When the bone growth stops, this replaces the epiphyseal plate.

• MEDULLARY CAVITY

- Large cavity in the diaphysis

• MARROW

- A soft tissue that fills the spaces
- **Yellow Marrow** – consist of mostly adipose tissues; **Red Marrow** – consist of blood-forming cell and is the only site of blood formation in adults.

• PERIOSTEUM

- Covers most of the outer surface of the bones
- Encloses the diaphysis
- Contains blood vessels and nerves

• ENDOSTEUM

- Thinner connective tissue membrane that lines the surface of the medullary cavity

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Anne B. Donnersberger



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A Laboratory Textbook of Anatomy and Physiology: Cat Version Anne B. Donnersberger, 2009-03-02 *Anatomy and Physiology for the Manual Therapies* Andrew Kuntzman, Gerard J. Tortora, 2009-08-17 *Anatomy Physiology for the Manual Therapies* 1e is designed to meet the specific needs of students preparing for careers in the manual therapies such as massage therapy and careers as physical therapy assistants This book provides the most appropriate depth of coverage for each body system in both narrative and visuals and by including relevant applications linking the content to situations they will face in their careers

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Anatomy and Physiology for Nursing and Health Professionals Bruce J. Colbert, Jeff Ankney, Martin Steggall, Karen T. Lee, Maria Dingle, 2009 This is the first *Anatomy and Physiology A* together the text and website will take you on an exciting and interactive journey through the structure and functions of the human body Aimed specifically at students and those returning to nursing this book should dispel any fears It informs the reader of the key facts but the authors are mindful not to overwhelm their readers nor to over burden with detail It is an ideal book to have close by for anyone studying nursing Recommended Karen Smyth Nursing Student University of Ulster THES Feb 2010 At last a good text adapted for the UK market Having listened to the pronunciation guide I am happy now to recommend this text Good points case studies linked to UK practice I like the combination approach the study skills advice the targetting of learning theory to learning A P including adrenaline with epinephrine in brackets interspersing calculations as exercises good test activities good reading for intro to A P ch 2 good references eg ch3 good reference to child infant for burn estimation good clinical application eg assessing peripheral perfusion activity pinching nail good to see photographs Penny Goacher School of Nursing and Midwifery University of East Anglia This fabulous book presents anatomy and physiology in a visually stimulating way taking readers on a journey through what many view as a complex maze of systems It embraces a variety of approaches to learning with chapters on the body systems sections on learning the language of anatomy reading the body map biochemistry and study skills The information is presented in a way that makes this book invaluable Valerie McGurk practice development facilitator paediatrics Northampton General Hospital NHS Trust reviewed in *Nursing Standard* magazine July 7 13 2010 edition

Bates' Guide to Physical Examination and History Taking Lynn S. Bickley, Peter G. Szilagyi, Barbara Bates, 2009 Presents step by step instructions for physical examination techniques along with information on taking the patient history

Respiratory Care Anatomy and Physiology Will Beachey, PhD, RRT, FAARC, 2012-10-22 Perfect for both practicing

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Excitatory Amino Acids Paul L. Herrling, 1997-01-10 Glutamate is the major excitatory neurotransmitter in the brain and dysfunction of glutamate transmission is the likely cause of a variety of diseases including neurodegeneration following cerebral ischemia Huntington's chorea amyotrophic lateral sclerosis epilepsy spasticity emesis chronic pain and schizophrenia Excitatory amino acid receptor agonists and antagonists are therefore of major interest as potential drugs for central nervous system disorders Excitatory Amino Acids is the first book entirely dedicated to the results of human testing of modulators of excitatory amino acid neurotransmitters Coverage of the field of excitatory amino acids from synaptic function to preclinical and clinical pharmacology Description of the development of NMDA N-methyl D-aspartate and non NMDA antagonists Reports of potential drugs in early and late clinical stages of development **Handbook of the Hospital Corps, United States Navy** United States. Navy Dept. Bureau of Medicine and Surgery, 1939 *Basic Human Anatomy and Physiology* Charlotte M. Dienhart, 1973

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